

WHAT IS CLAIMED IS:

1. A resource management method for managing resources in a label switching network, comprising:
 - retaining a bandwidth of an on-reservation session
 - 5 and a bandwidth of an on-communication session; and
 - executing periodical re-setting of a path with respect to the bandwidth occupied by the on-reservation session.
- 10 2. A resource management method in a label switching network according to claim 1, further comprising:
 - recording a failure count, for a fixed period, of a link causing a failure in a reservation request in a previous period; and
 - 15 fluctuating a weight of the link that tends to cause the failure on the basis of a history of the failure count.
3. A resource management method in a label switching network according to claim 1, further comprising
 - 20 fluctuating a re-setting period of the path in accordance with the reservation request failure count.
4. A reservation path optimization system for optimizing a reservation path between specified nodes
 - 25 configuring a network, comprising:
 - a reservation path setting module for setting the reservation path and a bandwidth for establishing a

predetermined session between specified nodes; and
a reservation path re-setting module for
periodically re-setting the reservation path on the basis
of the bandwidth set by said reservation path setting
5 module.

5. A reservation path optimization system for
optimizing a reservation path between specified nodes
configuring a label switching network, comprising:
10 a reservation path setting module for setting the
reservation path and a bandwidth for establishing a
predetermined session between specified nodes; and
a reservation path re-setting module for re-setting
the reservation path set by said reservation path setting
15 module.

6. A reservation path optimization system according
to claim 5, the reservation path re-setting module
periodically re-sets the reservation path on the basis
20 of the bandwidth set by said reservation path setting
module.

7. A reservation path optimization system according
to claim 5, the reservation path re-setting module
periodically re-sets the reservation path on the basis
25 of specified algorithm

8. A reservation path optimization system according

to claim 4, further comprising a module for fluctuating the period.

9. A reservation path optimization system according to claim 4 or 5, wherein the label switching network is an MPLS network, and

the reservation path is Label Switched Path.

10. A reservation path optimization method for optimizing a reservation path between specified nodes configuring a network, comprising:

setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes; and

15 periodically re-setting the reservation path on the basis of the bandwidth set by said reservation path setting.